SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1367
CALIBRATION DATE: 31-Jul-09

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86121902e-003
h = 6.76923677e-004
i = 2.74823606e-005
j = 2.23126546e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121331e-003
b = 5.97909125e-004
c = 1.50403552e-005
d = 2.23272571e-006
f0 = 6441.520

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	6441.520	-1.5001	0.00003
0.9999	6814.142	0.9999	-0.00003
4.4999	7361.642	4.4999	-0.00001
7.9999	7940.018	7.9999	-0.00003
11.4998	8550.093	11.4998	0.00004
14.9999	9192.693	14.9999	0.00003
18.4999	9868.546	18.4999	0.00002
21.9999	10578.405	21.9999	-0.00005
25.4999	11323.017	25.4999	-0.00000
28.9999	12103.036	28.9999	-0.00001
32.4999	12919.137	32.4999	0.00002

Temperature ITS-90 = $1/\{g + h[ln(f_0/f)] + i[ln^2(f_0/f)] + j[ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[ln(f_0/f)] + c[ln^2(f_0/f)] + d[ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be 1.00024 * T_{90} (-2 to 35 °C)

Residual = instrument temperature - bath temperature